Notice of Allowability	Application No.	oplication No. Applicant(s)		
	10/786,971	LIN ET AL.		
	Examiner	Art Unit		
	Andy S. Rao	2621		
The MAILING DATE of this communication ap All claims being allowable, PROSECUTION ON THE MERITS herewith (or previously mailed), a Notice of Allowance (PTOL- NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.3  1.  This communication is responsive to the amendment fill 2.  The allowed claim(s) is/are 1, 4-5, 8-10, 12-18, 20-23 (fr 3.  Acknowledgment is made of a claim for foreign priority a) All b) Some* c) None of the: 1.  Certified copies of the priority documents he 2.  Certified copies of the priority documents he 3.  Copies of the certified copies of the priority	IS (OR REMAINS) CLOSED in telest) or other appropriate communated RIGHTS. This application is substantially and MPEP 1308.  Seed.  The expectively renumbered as claims of the communated with the community and t	his application. If not included ication will be mailed in due of bject to withdrawal from issue so the first section of the first section withdrawal from issue so the first section withdrawal from issue section withdrawal from issue section withdrawal from issue section with the first section wit	d burse. THIS at the initiative	
International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:  Applicant has THREE MONTHS FROM THE "MAILING DAT	'E" of this communication to file o	reply complying with the reason	iremente	
noted below. Failure to timely comply will result in ABANDO THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	NMENT of this application.			
<ol> <li>A SUBSTITUTE OATH OR DECLARATION must be su INFORMAL PATENT APPLICATION (PTO-152) which g</li> </ol>			TICE OF	
5. CORRECTED DRAWINGS ( as "replacement sheets") n	nust be submitted.	•		
(a) including changes required by the Notice of Draftsp	erson's Patent Drawing Review (	PTO-948) attached		
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date				
(b) ☐ including changes required by the attached Examin Paper No./Mail Date	er's Amendment / Comment or in	the Office action of		
Identifying indicia such as the application number (see 37 CF each sheet. Replacement sheet(s) should be labeled as such	R 1.84(c)) should be written on the in the header according to 37 CFR	drawings in the front (not the b 1.121(d).	ack) of	
6. DEPOSIT OF and/or INFORMATION about the de attached Examiner's comment regarding REQUIREMEN	posit of BIOLOGICAL MATER NT FOR THE DEPOSIT OF BIOL	RIAL must be submitted. No OGICAL MATERIAL.	te the	
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5 □ Notice of Info	rmal Patent Application		
<ol> <li>Notice of Neterchoes offed (170-032)</li> <li>Divide of Draftperson's Patent Drawing Review (PTO-94)</li> </ol>		<ul><li>5. ☐ Notice of Informal Patent Application</li><li>6. ☐ Interview Summary (PTO-413),</li></ul>		
3. ☐ Information Disclosure Statements (PTO/SB/08),	Paper No./M	Paper No./Mail Date 7. ⊠ Examiner's Amendment/Comment		
Paper No./Mail Date  4.  Examiner's Comment Regarding Requirement for Depos of Biological Material	_	atement of Reasons for Allow	ance	
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## Allowable Subject Matter

1. Claims 1, 4-5, 8-10, 12-18, 20-23 are allowed.

Independent claim 1 recites an FGS encoder including "...wherein said encoder operates in a mix prediction mode when said base-layer mode selector is switched to select said coarse prediction output and said enhancement-layer mode selector is switched to select said fine prediction output, said encoder operates in an all-coarse prediction mode when both said baselayer mode selector and said enhancement-layer mode selector are switched to select said coarse prediction output, and said encoder operates in an all-fine prediction mode when both said baselayer mode selector and said enhancement-layer mode selector are switched to select said fine prediction output..." which are features that are not anticipated nor obvious over the art of record. Independent claim 8 recites an encoding method including "...a base layer with coarse prediction and an enhancement layer with fine prediction, and encoding parameters collected from each macroblock in said step include a fine prediction error value, a coarse prediction error value, and best-case and worst-case mismatch errors in fine prediction..." which is a feature that is not anticipated nor obvious over the art of record. Independent claim 18 recites a bit plane truncating method including low rate bit truncation "...wherein said low-rate bit truncation allocates each I/P-flames of said enhancement layer with a number of bits proportional to a ratio of the number of bits used for prediction in each I/P-frames to total number of bits used for fine prediction for all I/P-flames in said group of pictures, and allocates no bit to any B-flame of said enhancement layer..." which are features that are not anticipated nor obvious over the art of record. Independent claim 23 recites a bit plane truncation method including "... performing low-rate bit truncation if total bits available for allocation for said enhancement layer are less

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than or equal to total number of enhancement-layer bits in all I/P-frames in said group of pictures used for fine prediction; performing medium-rate bit truncation if total bits available for allocation for said enhancement layer are less than or equal to total number of enhancement-layer bits in said group of pictures used for fine prediction but greater than total number of enhancement-layer bits in all I/P-frames in said group of pictures used for fine prediction; and performing high-rate bit truncation if total bits available for allocation for said enhancement layer are greater than total number of enhancement-layer bits in said group of pictures used for fine prediction..." which are features that are not anticipated nor obvious over the art of record. Dependent claims 4-5, 9-10, 12-17, and 20-22 are allowed for the reasons concerning the independent claims.

## Conclusion

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andy S. Rao whose telephone number is (571)-272-7337. The examiner can normally be reached on Monday-Friday 8 hours.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mehrdad Dastouri can be reached on (571)-272-7418. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Andy S. Rao

**Primary Examiner** 

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asr

February 27, 2007